

C¹ *Sub E²* 1. A signal processor for converting digital images for use in an imaging system, comprising:

a digital data memory adapted for storing digital data representing an image having the properties of a circular field-of-view and objects in the field-of-view being substantially in focus,

a control input for receiving a signal representing a selection of a portion of the image, wherein said selection ranges across said field of view, and

a converter, responsive to said control input, for converting stored digital data in said digital data memory representing the selected portion into digital data representing a planar image for display [and for incrementally scanning across said digital data between points].

In claim 5, line 5, delete "planar" and insert --perspective-corrected--.

C² *Sub E²* 11. A method of converting a digital image for use in an imaging system comprising the steps of:

storing digital data representing an image having the properties of a circular field-of-view and objects in the field-of-view being substantially in focus,

selecting a portion of said image, wherein said selecting step selects said portion across said field-of-view,

converting stored digital data representing the selected portion into digital data representing a [planar] perspective-corrected image for display [, and]

[incrementally scanning from said planar image to another point] .

In claim 15, line 6, delete "planar" and insert --perspective-corrected--.

C³ *Sub F¹* 21. A method of converting a digital image for use in an imaging system comprising

the steps of:

storing digital data representing a partial spherical image; and
converting digital data representing a selected [portions] portion of the partial spherical image into digital data representing [planar views for simultaneous] a perspective-corrected view for display, wherein said selected [portions are] portion is chosen across said field-of-view.

22. A signal processor for converting digital images for use in an imaging system, comprising:

a digital data memory for storing digital data representing an image having the properties of a circular field of view and objects in the field-of-view being substantially in focus,

a control input for receiving a signal representing a selected viewing angle, wherein said viewing angle is chosen from the angles varying across said field-of-view, and

a converter, responsive to said control input, for processing the stored digital data according to the selected viewing angle [, for processing the stored digital data in the direction of another point] and outputting a [planar] perspective-corrected image for display.

C³ control
Sub E³ 23. A method for converting digital images for use in an imaging system, comprising the steps of:

storing digital data representing an image having the properties of a circular field-of-view and objects in the field-of-view being substantially in focus,

selecting a viewing angle, wherein said viewing angle is chosen from the angles varying across said field-of-view, and

processing, responsive to the selected viewing angle, the stored digital data according to

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cancel.*
the selected viewing angle and [then processing the stored digital data incrementally in the direction of another point] to output a [planar] perspective-corrected image for display.

*C3
concluded*
24. A signal processor for use in an imaging system, comprising:

a control input for receiving a signal representing a selection of a portion of an image having the properties of a circular field-of-view and objects in the field-of-view being substantially in focus, wherein said selection is chosen across said field-of-view [, and said signal is generated by a remote alarm] ; and

a converter, responsive to the control input, for converting stored digital data representing the selected portion to digital data representing a [planar] perspective-corrected image for display.

Sub E4 → 25. A memory for a signal processor, comprising:

a data structure, responsive to a control input representing a selection of a portion of an image stored in said memory, wherein said selection is chosen across said field-of-view, said data structure representing an orthogonal set of transformation algorithms which include calibration coefficients which are modified to correct for various lenses; and

a buffer memory adapted to store digital image data for transformation.

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27. A memory for a signal processor, comprising:

a data structure, responsive to a control input representing a selection of a portion of an image, said data structure representing an orthogonal set of transformation algorithms [wherein the data structure allows image processing to occur for incremental portions between points] .

28. A signal processor for converting digital images, comprising:

a memory for storing digital data representing an input image having the properties of a

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circular field-of-view and objects in the field-of-view being substantially in focus,

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Concluded
a control input for receiving a signal representing a selection of a portion of the input image, wherein said selection is chosen from across said field-of-view, and

a digital converter, responsive to said control input, for converting stored digital data in said memory representing the selected portion of the input image into digital data representing a [planar] perspective-corrected image, [and for converting said stored digital data representing another portion, incrementally different from said first portion in the direction of another point,] wherein said planar image is one of a panned, tilted, rotated and magnified version of the input image.

In claim 29, line 6, delete "planar" and insert --perspective-corrected--.

In claim 31, line 3, delete "planar" and insert --perspective-corrected--.

Please delete claims 32-37.

REMARKS

The Office Action of September 26, 1998, has been carefully reviewed. The above amendment and following remarks are responsive thereto.

Applicants wish to thank SPRE J. Dixon for his time and insight on February 26, 1998, regarding the possibility of filing the attached Petition to Suspend.

The September 26, 1997, Office Action

The Office Action of September 26, 1997, is summarized below:

- Claims 1-20, 22, 23, and 27-37 stand rejected under 35 U.S.C. § 112, first paragraph,